

**Provisional Product List for NAICS 541370: Surveying and Mapping (except Geophysical) Services\***

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	Industry Subject Area	Working Group Code	Tri- lateral Detail	English Title	English Definition	Product Exists in:			National Product Detail			NAICS Industries Producing the Product			CPC Codes
3						C	M	U	C	M	U	Canada	Mexico	U.S.	
4	54137	1		Geospatial Photo and Image Acquisition	Information about the earth's surface acquired from aircraft and spaceborne platforms.	X	X	X				541370 911910	541370	541370	83530
5	54137	1.1	X	Airborne Geospatial Photo and Image Acquisition	Information about the earth's surface acquired from aircraft, in which aerial cameras, radar, infra-red detectors, GPS receivers and/or other equipment aboard the aircraft are the primary means of data collection. Products may be geospatially referenced, and in the case of aerial photography, there may have been additional processing.	X	X	X				541370	541370	541370	83530
6	54137	1.2	X	Spaceborne Geospatial Image Acquisition	Information about the earth's surface acquired from spaceborne platforms. Products may be geospatially referenced.			X				541370 911910	541370 (Si el product o existiera )	541370	83530
7	54137	2		Geospatial Photo and Image Processing	Processing of photos and images acquired from aircraft or spaceborne platforms.	X	X	X				541370	541370	541370	83530 83540
8	54137	2.1	X	Orthophoto and Image Processing	Processing aerial photographs or satellite imagery to remove distortions due to tilt, terrain relief and perspective. The result is an orthorectified photo or image.	X	X	X				541370	541370	541370	83530
9	54137	2.2	X	Elevation and Terrain Modeling	Production of models describing the elevation of the earth's surface over a defined area. The models may take the form of a data array, a randomly distributed set of points, or an image produced using the digital elevation data. The elevations may have been corrected for the height of trees, vegetation, and building. The result is either a Digital Elevation Model (DEM) or a Digital Terrain Model (DTM).	X	X	X				541370	541370	541370	83540
10	54137	2.3	X	Aerotriangulation	The determination of horizontal and/or vertical coordinates of points on the ground from precise measurements on a photograph or image to create a control network sufficiently dense to provide a positionally accurate framework.	X	X	X				541370	541370	541370	83530
11	54137	2.4	X	Other Geospatial Photo and Image Processing Services, n.e.c.	Production of other geospatial photo and image processing services, n.e.c. Examples include photomosaics, photogrammetric mosaics, and photogrammetric restitution services.	X	X	X				541370	541370	541370	83530

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12	54137	2.4.1		Photomosaics	Process by which individual photographs obtained directly from the negative are combined to form a photographic image of a larger area. This process is intended to lead to less distortion of scale by making adjustments and cuts to the original photographs. These are not rectified photographs.	X	X	X		X		541370	541370	541370	83530
13	54137	2.4.2		Photogrammetric Mosaics	Process for combining rectified aerial photographs so that the borders coincide and form a continuous photographic representation of part of the earth's surface.	X	X	X		X		541370	541370	541370	83530
14	54137	2.4.3		Photogrammetric Restitution	Convert information obtained from aerial photographs or satellite imagery into conventional symbols.	X	X	X	?	X		541370	541370	541370	83530
15	54137	3	X	Geospatial Data Interpretation	Analysis of the nature of objects whose images appear on a photograph or other imagery and the description of those objects; the characterization of the earth surface, natural or man-made features covering the earth's surface.	X	X	X				541370 541360	541370	541370	83530
16	54137	4		Integrated Surveying and Mapping Services	Acquisition of data and information about real property and/or the earth's surface, and the subsequent portrayal of this information in report, map or plat format.	X	X	X				541370 541320	541370 541330	541370 541320 541330	83530 83540 83221
17	54137	4.1	X	Topographic and Planimetric Surveying and Mapping Services	Surveying for the purpose of determining the shape (relief) of the surface of the land and/or the location of natural and manmade features on the surface and the preparation or revision of a map indicating the elevation of the surface (relative to a datum) and slope.	X	X	X				541370	541370 541330	541370	83530 83540
18	54137	4.2	X	Hydrographic and Bathymetric Surveying and Mapping Services	Surveying for the purpose of determining the geometric and dynamic characteristics of bodies of water, including the depth, temperature, or salinity of water; configuration of the bottom; velocities of currents; heights and times of tides and water stages; and the location of fixed objects used in navigation, and the preparation or revision of maps showing this information.	X	X	X				541370	541370	541370	83530 83540
19	54137	4.3	X	Property Line Surveying and Mapping Services, including Subdivision Layout and Design.	Surveying to delimit surfaces and determine boundaries of the land.	X	X	X				541370 541320	541370 541330	541370 541330	83530 83540 83221

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20	54137	4.3.1		Boundary, Property Line, and Cadastral Surveying and Mapping	Surveying for the purpose of establishing or re-establishing a boundary or property line on the ground, and/or for preparation of a map or plan showing a boundary or property line(s), including surveying for legal and/or cadastral purposes.	X	X	X	X		X	541370		541370	83530 83540
21	54137	4.3.2		Subdivision Layout and Design	Dividing a piece of land into smaller pieces such as lots, streets, and rights of way; marking or monumenting all necessary corners or dividing lines; and/or preparing maps or plats for record showing all information regarding adjoining land affecting the boundaries; and (optionally) layout of roadway, and storm water/sanitary systems.	X	X	X	X		X	541370 541320		541370 541320 541330	83540 83221
22	54137	4.4	X	Construction Surveying	Surveying prior to and during construction to control elevation, horizontal location and dimensions, and configuration; to determine if the construction was adequately completed; and to obtain dimensions essential for calculating quantities used in paying for construction.	X	X	X				541370	541370 541330	541370 541330	83530
23	54137	4.5	X	Geodetic Surveying and Ground Control Support	Surveying for the purpose of determining the precise horizontal and/or vertical position of points or monumented locations to provide a reference framework for further surveys. Includes ground control support.	X	X	X				541370	541370	541370	83530
24	54137	4.5.1		Geodetic Surveying	Surveying for the purpose of determining the precise horizontal and/or vertical position of points or monumented locations to provide a reference framework for further surveys.	X	X	X		X		541370	541370	541370	83530
25	54137	4.5.2		Ground Control Support	Obtaining in field of coordinates of identifiable points on the terrestrial surface by means of the Global positioning system (GPS) or with equivalent methods.	X	X	X		X		541370	541370	541370	83530
26	54137	5		Thematic Mapping, Orthophoto Mapping, and Charting	Preparation and revision of thematic maps, orthophoto maps, and charts.	X	X	X				541370 541360 911910	541370 93	541370	83540
27	54137	5.1	X	Thematic Mapping	Preparation and revision of specialized map and data products designed to portray specific data themes (natural resource, demographic, economic, biological, etc.).	X	X	X				541370 541360	541370 93	541370	83540
28	54137	5.2	X	Orthophoto Mapping	Preparation and revision of orthophoto maps.	X	X	X				541370	541370 93	541370	83540

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29	54137	5.3	X	Nautical Charting	Preparation and revision of charts designed primarily for use in nautical navigation. Features usually shown are: bathymetric contours, navigational hazards, aids to navigation, port facilities, water depths and type of shoreline.	X	X	X				541370	93 (actual mente) 541370 (Si existiera como producto derivado de la actividad principal)	541370	83540
30	54137	5.4	X	Aeronautical Charting	Preparation and revision of charts designed primarily for use in aeronautical navigation. The aeronautical chart provides important information about flight paths, airport approaches and facilities, as well as landmark features.		X	X				54137 911910	93 (actual mente) 541370 (Si existiera como producto derivado de la actividad principal)	541370	83540
31	54137	6	X	Geographic Information System Development and Customization	Design, development, modification and customization of a geospatially-referenced information system.	X	X	X				541370	541370 541510	541370 5415	83142
32	54137	7	X	Geospatial Consulting Services	The provision of advice concerning surveying and mapping projects, expert witness services and other geospatial consulting services.	X	X	X				541370	541370	541370	83139 83530 83540
33	54137	7.1		Project Definition Services Related to Surveying and Mapping	The provision of a report defining the problem, studying available geospatial technologies and recommending the most appropriate technology and methods in order to resolve the problem.	X		X	X		X	541370		541370	83139
34	54137	7.2		Expert Witness Services	Testimony by a witness who, by virtue of experience, training, skill or knowledge of a particular field or subject, is recognized as being qualified to render an informed opinion on matters relating to that field or subject.	X		X	X		X	541370		541370	83139 83530 ? 83540 ?

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35	54137	7.3		Other Geospatial Consulting Services	Other geospatial consulting services, n.e.c.	X	X	X	X		X	541370		541370	83139
36	54137	8	X	Training Services Related to Surveying and Mapping	Training in surveying and mapping methods and technology, the use of specialized hardware and software, and the interpretation of survey and mapping results.	X	X	X				541370	541370	541370	92900
37	54137	9	X	Geospatial Data Conversion Services	The conversion of geospatially-referenced data from one medium to another, typically scanning or digitizing of hardcopy products to digital format, or the conversion of digital data from one format to another, for example, from raster to vector or from one cartographic system to another.	X	X	X				541370 541360	541370 541510	541370 5415	85960?
38	54137	9.1		Geospatial Data Digitizing Services	The conversion of geospatially-referenced data from one medium to another, typically scanning or digitizing of hardcopy products to digital format.	X	X	X		X		541370 541360	541370 541510	541370 5415	85960?
39	54137	9.2		Other Geospatial Data Conversion Services	The conversion of geospatially-referenced data from one format to another, for example, from raster to vector or one cartographic system to another.	X	X	X		X		541370 541360	541370 541510	541370 5415	85960?
40	54137	10	X	Sale of Satellite Images	Sale of satellite images.	X	X	X				541370	541370	541370	62499 62599
41	54137	11	X	Sale of Other Geospatial Products	Geospatial products sold in pre-packaged, off-the-shelf format. Examples include scanned map products, electronic atlases, and related products. Includes sale of aerial photographs such as contacts, slides, and enlargements.	X	X	X				541370 511210 417310? 443120?	541370 541510 46? 43? 51?	541370	62499 62599 62484 62584
42	54137	11.1		Sale of Aerial Photographic Records	Sale of aerial photographs such as contacts, slides, and enlargements.	X	X	X		X		541370	541370	541370	62499 62599
43	54137	11.2		Sale of Maps	Sale of maps.	X	X	X		X		541370	541370	541370 453998	62499 62599
44	54137	11.3		Sale of Geographic Information Systems (GIS) Software	Sale of packaged geographic information software.	X	X	X		X		541370 511210 417310? 443120?	541370 541510 46? 43? 51?	541370 443120	62484 62584
45	54137	12	X	Other services	Examples include services such as lamination services, equipment rental, laboratory work for aerial photography.	X	X	X				541370	541370 532493	541370	

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